"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

A. P. Sokolov, an Excellent Russian Historian of Marine Research. On the 100th Anniversary of His Death

SOV/50-58-8-4/18

the following: Fluctuations of the level of the Caspian Sea, the shores and peninsulas of North and East Siberia (Severnaya i Vostochnaya Sibir'), and the general problems of hydrography and oceanography. During his service at the Baltic Sea he had a good hydrographical training, his teacher was the prominent M. P. Reinecke (Reyneke). His transfer to the Hydrographical Department enabled Sokolov to evaluate the rich archives. Numerous papers on the history of the Russian navigation, hydrography, and hydrometeorology were the result. Life was not easy for Sokolov, since he could occupy himself with the history of the Russian Fleet only during his leisure time. Indifferent authorities and the disapproving aristocratic colleagues did not back his work. Only 5 years before his death he could devote himself completely to his beloved work. He died in 1858, aged 43. Not until now his work won the due appreciation. There is 1 figure.

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, A., kand. geograf. nauk, starshiy nauchnyy sotrudnik.

Importance of the International Geophysical Year for maritime navigation. Mor. flot 18 no.11:20-22 N '58. (MIRA 11:12)

1.Nauchno-issledovatel'skiy institut Gidrometeosluzhby.
(International Geophysical Year, 1957-1958)
(Navigation)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, A.,

Scholarly works of A.I. Vil'kitskii. Mor. flot 19 no.2:39 F '59. (MIRA 12:3)

1.Starshiy nauchnyy sotrudnik nauchno-issledovatel'skogo instituta Gidrometeosluzhby .
(Vil'kitskii, Andrei Ippolitovich, 1858-1913)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PIAKHOTNIK, A.F.

Hydrological characteristics [illegible]
40:47-50 [illegible].

1. Vsesoyuznyy nauchno-issledovatel'skiy institut [illegible]
khozyaystva i okhrany prirody.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, A.F.

Water exchange of the Bering Sea; generalization and analysis of published data. TRUDY VNIRO 46:185-189 '62. (MIRA 15:10)
(Bering Sea—Oceanography)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, A.F.

Hydrology of the northeastern part of the Pacific Ocean; review of published data. TRUDY VNIRO 46:190-201 '62.
(MIRA 15:10)

(Pacific Ocean--Oceanography)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, A.F.

History of the study [illegible] seas. Trudy Inst.ist.est.i tekh. 37:52-60 '61. (MIRA 14:10)
(Oceanography)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

SHENDEROVICH, I.M.; KLEBAN, L.S.; PLAKHOTNIK, A.F.

Results of testing an improved bathythermograph. Trudy NIIGMP no.9:97-101 '60. (MIRA 14:7)
(Bathythermograph--Testing)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, S.

USSR/Electronics - Exhibit

Card 1/1

Author : Plakhotnik, S.

Title : Radio equipment at the 1953 Leipzig fair

Periodical : Radio, 3, 18, Mar, 1954

Abstract : At the Leipzig technical fair of 1953, the pavilion of radio- and electrotechnics of the German Democratic Republic drew the most attraction. More than 100 different types of radio-broadcasting apparatuses, receiving sets, radio parts and electrical equipment were exhibited. General impression of the exhibition was good. The article contains three photographs, (1 a block coil with a switch; 2) magnetic tape recorder and player that can also be attached to a standard record player, and 3) a 3-speed record player.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, S.

Production of radio receivers. Radio no.8:61-62 Ag '54.(MLRA 7:8)
(Radio industry)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

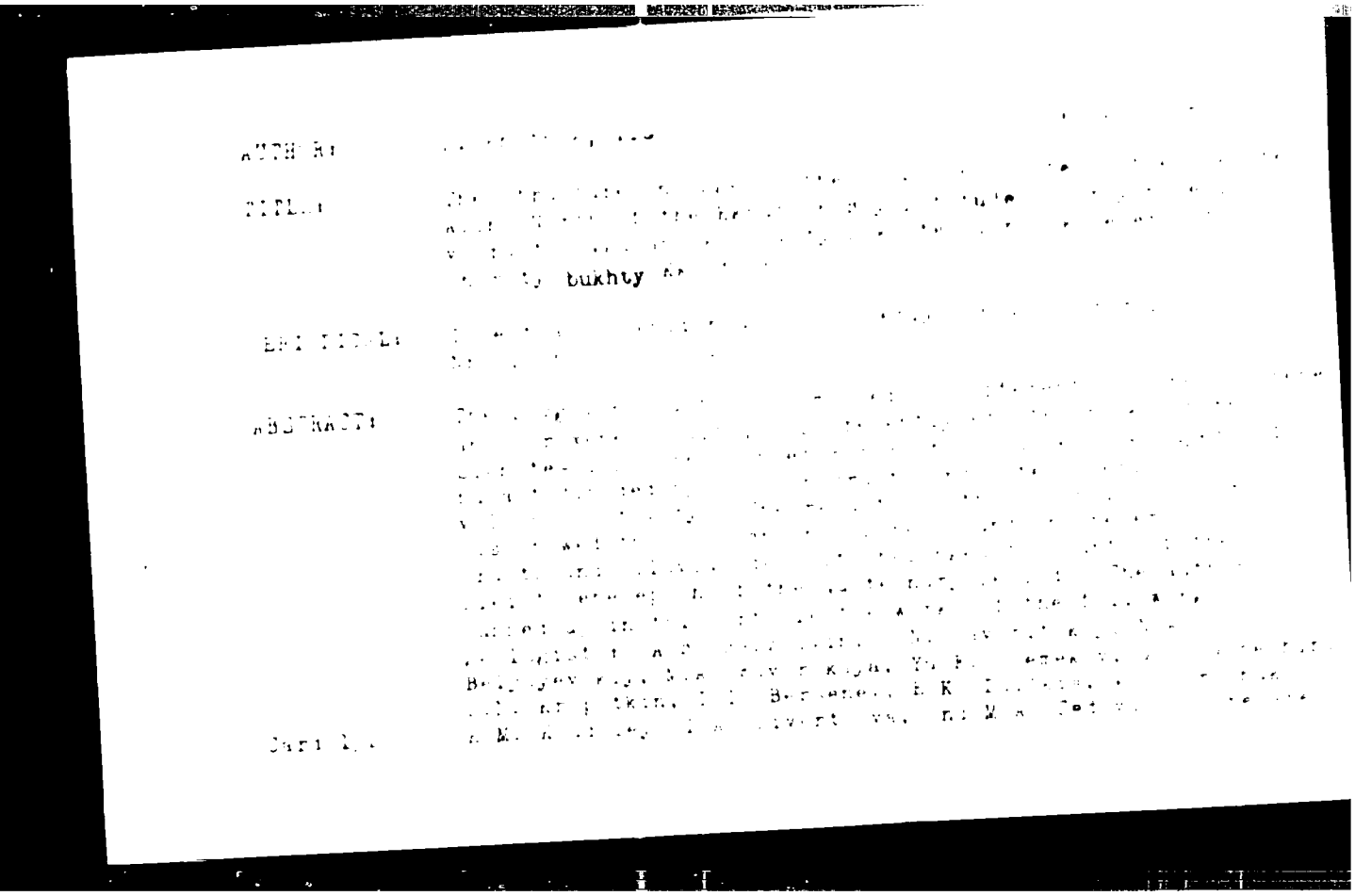
PLAKHOTNIK, V.G.

Structure and age of the Sovetskaya Gavan' series of Sikhote-Alin', north of the latitude of Khutsyn Bay. Izv. AN SSSR Ser. geol. 24 no.2:78-84 F '59. (MIRA 12:3)

1.Ministerstvo geologii i okhrany nedr SSSR 4-ye Geologicheskoye upravleniye, Moskva.
(Sikhote-Alin' Range--Basalt)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

The structure and [illegible] of the Kkh[illegible] in [illegible]

[illegible]

ABSTRACT: [illegible] Kkh[illegible] [illegible] Kkh[illegible] [illegible] tration, Misc[illegible] Adminis-

Card [illegible]

PLAKHOTNIK, V.G.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

Hawaiian type Neogene Volcano in the Sikhote-Alin' Range.
Biul. Vulk. sta. no.34:48-50 '63. (MIRA 16:10)

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, V.G.

New data on the age and structure of effusives in the Kizinsk series of the northeastern Sikhote-Alin' Range. Sov.geol. 5 no.4:120-122 Ap '62. (MIRA 15:4)

1. Ministerstvo geologii i okhrany nedr SSSR.
(Sikhote-Alin' Range—Rocks, Igneous)

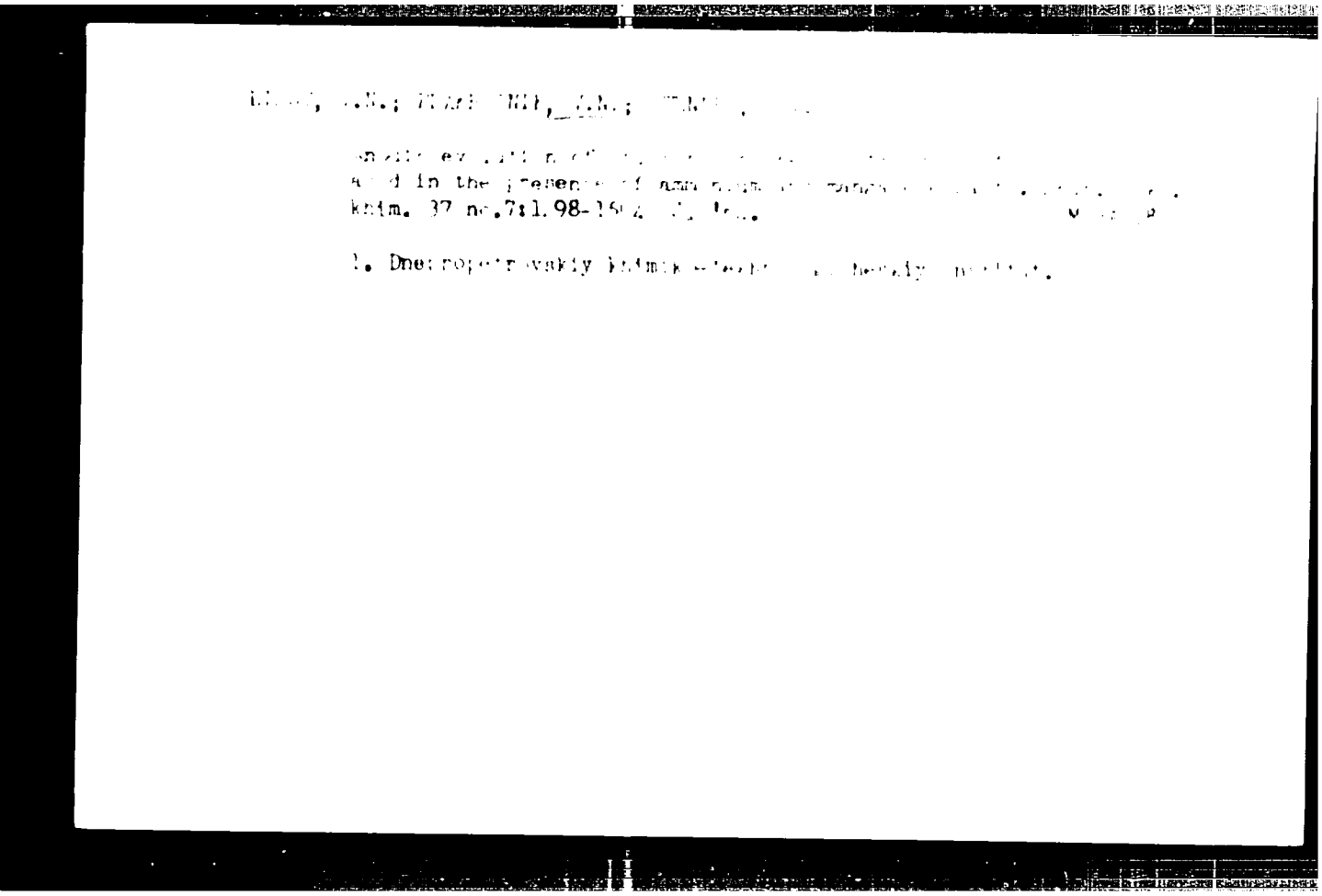
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, V

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

GALEMINA, O.M.[Halemina, O.M.]; PLAKHOTNIK, V.N.

Effect of low temperature treatment on the graphitization of vacuum casts of white pig iron [with summary in English]. Dop.AN U[illegible] no.3:329-331 '61. (MIR 14:3)

1. Dneropetrovskiy khimiko-tekhnologicheskiy institut. Predstavlen akademikom AN USSR V.N.Svechnikovym.
(Cast iron)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIK, Aleksandr Filippovich; TEREKHINA, O.I., red.; FISHCHEVA, T.V., red.; ANDREYEVA, K.S., red.kart; DZHATIYEVA, F.Kh., tekhn.red.

[Oceans and seas; textbook for teachers] Okeany i moria; posobie dlia uchitelei. Moskva, Gos.uchebno-pedagog.izd-vo M-va prosv.RSFSR, 1959. 181 p. (MIRA 12:10)
(Ocean)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PONPA, D. L.

"Laurus Nobilis," by A.N.Obukhov and D.L.Ponpa. Pryanoye syr'ye SSSR, pp [illegible]-91, No 1, 1937.

Translation - M-121, 21 Jan 55

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIKOV, M.A.

A rare case of extrauterine pregnancy diagnosed as tumor of the stomach. Akush. i gin. no.6:81 N-D '54. (MLRA 8:2)

1. Iz khirurgicheskgo otdeleniya Nelidovskoy gorodskoy bol'nitsy Velikolukskoy oblasti.

(PREGNANCY, ECTOPIC, differ. diagnosis
cancer of stomach)
STOMACH, neoplasms
differ. diag. from ectopic pregn.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNIKOV, Yu.G., tekhnik.

Electric part of automatic heating for feedwater pumps.
Energetik 5 no.9:19-20 S '57.
(Boilers) (MIRA 10:10)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTINA, L.S. (Khar'kov)

Effect of the brain on the ovaries and the estrual cycle under conditions of hypophysectomy. Probl. endok. i gorm. 9 no.3:15-20 My-Je '63. (MIRA 17:1)

1. Iz kafedry gistologii (zav. - zasluzhennyy deyatel' nauki prof. B.A. Aleshin) Khar'kovskogo meditsinskogo instituta.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

GUBERNIYEV, A. I.; PLAKHOTNYY, A. F.

"Rapid heating of ingots for forging" by M.E. Trosman. Reviewed by A.I. Gubernlev, A.F. Plakhotnyi. Kuz.-shtam. proizv. 2 no.10:46 O '60. (MIRA 13:10)

(Forging) (Steel ingots) (Trosman, M.E.)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNYA, R. A., KRIK[illegible]V, M. S., [illegible]V, V. S., and GORBETS, A. D.

Novyy metod diagnostiki askaridoza svineY, "Works on Helminthology" on the 75th Birthday of K. I. Skryabin Izdat. Akad. Nauk, SSSR, Moskva, 19[illegible], page 240

All-Union Inst. Halmintnology in Acad. K. I. Skryabin and Chair of Parasitology Belaya Tserkov, Agricultural Institute

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNYI, L.

Razvitie sredstv sviazi Kazakhskoi SSR. /The development of communication facilities of Kazakh SSR/. (Vestnik sviazi. Pochta. 1947, no. 1, p.5-6).
DLC: HE7.V44

Razvitie sredstv sviazi soiuznykh republik v novoi Stalinskoi piatiletke. /The development of communication facilities in the constituent republics in the new five-year plan/. Obzor zakonov o piatiletnikh planakh, priniatykh sessiiami Verkhovnykh Sovetov 16 soiuznykh republik. (Vestnik sviazi. Pochta. 1946, no. 11-12, p. 10-11).

DLC: HE7.V44

SO: SOVIET TRANSPORTATION AND COMMUNICATIONS, A BIBLIOGRAPHY, Library of Congress Reference Department, Washington, 1952, Unclassified.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTNYUK, A.K.; GOLUBEVA, I.A., red.; PECHENKIN, I.B., tekhn. red.

[Machines and equipment used in forestry; a handbook] Mashiny i orudiia dlia lesokhoziaistvennykh rabot; spravochnik. Moskva, Izd-vo M-va sel'. khoz. SSSR, 1958. 310 p. (MIRA 11:7)

1. Agrolesoproyekt, Proyektno-izyskatel'skoye ob"yedineniye.
(Forest and forestry--Equipment and supplies)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

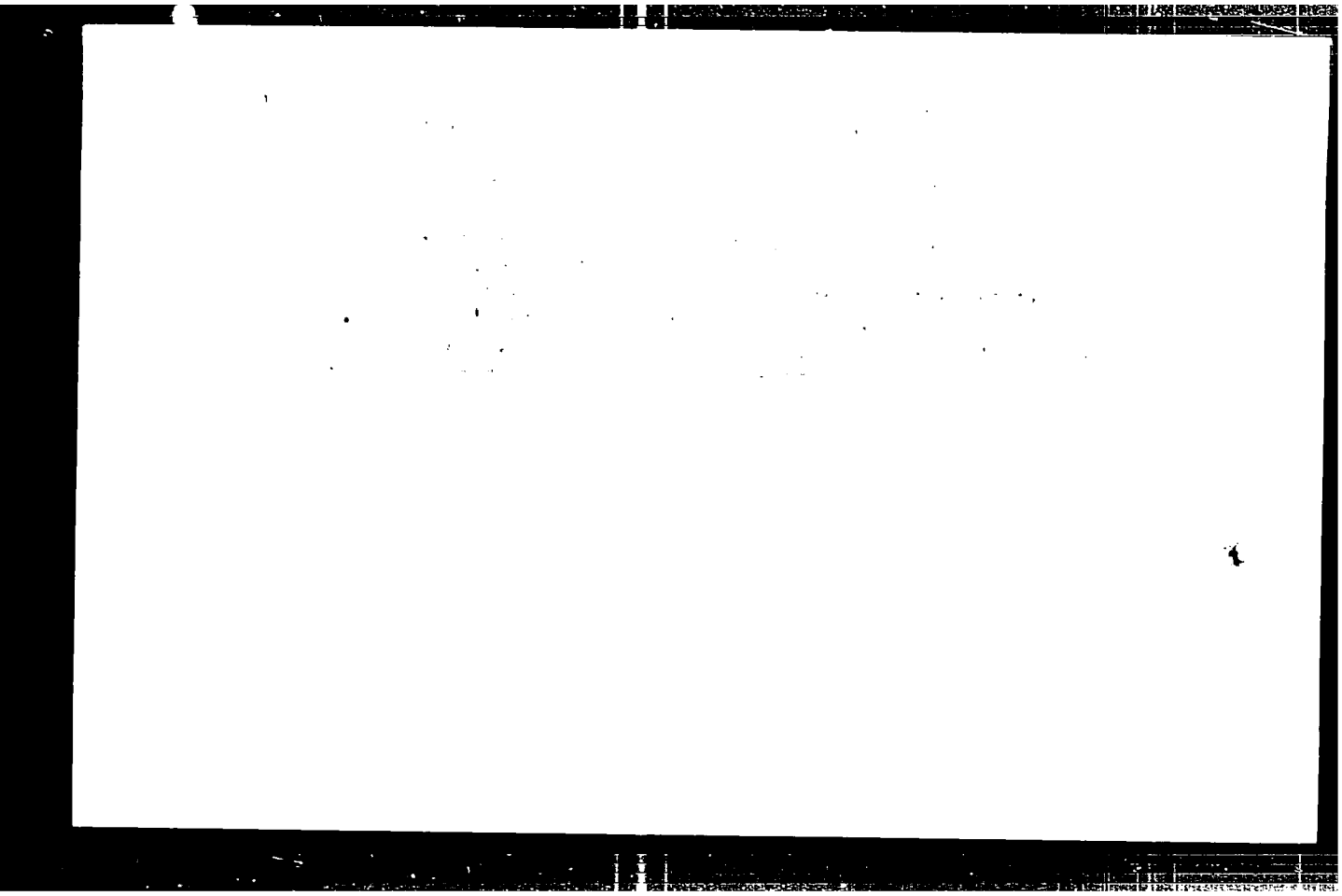
DEMCHENKO, I.V.; PLAKHOTNYUK, I.V.; LOZOVOY, N.M.

Mining 704 meters of the drift per month with the PK-3 cutter-loader. Ugol' Ukr. 5 no.5:29 My '61. (MIRA 14:5)

1. Shakhtoupravleniye "Privol'nyanskoye-Severnoye" tresta Lisichanskugol'.
(Coal mining machinery)

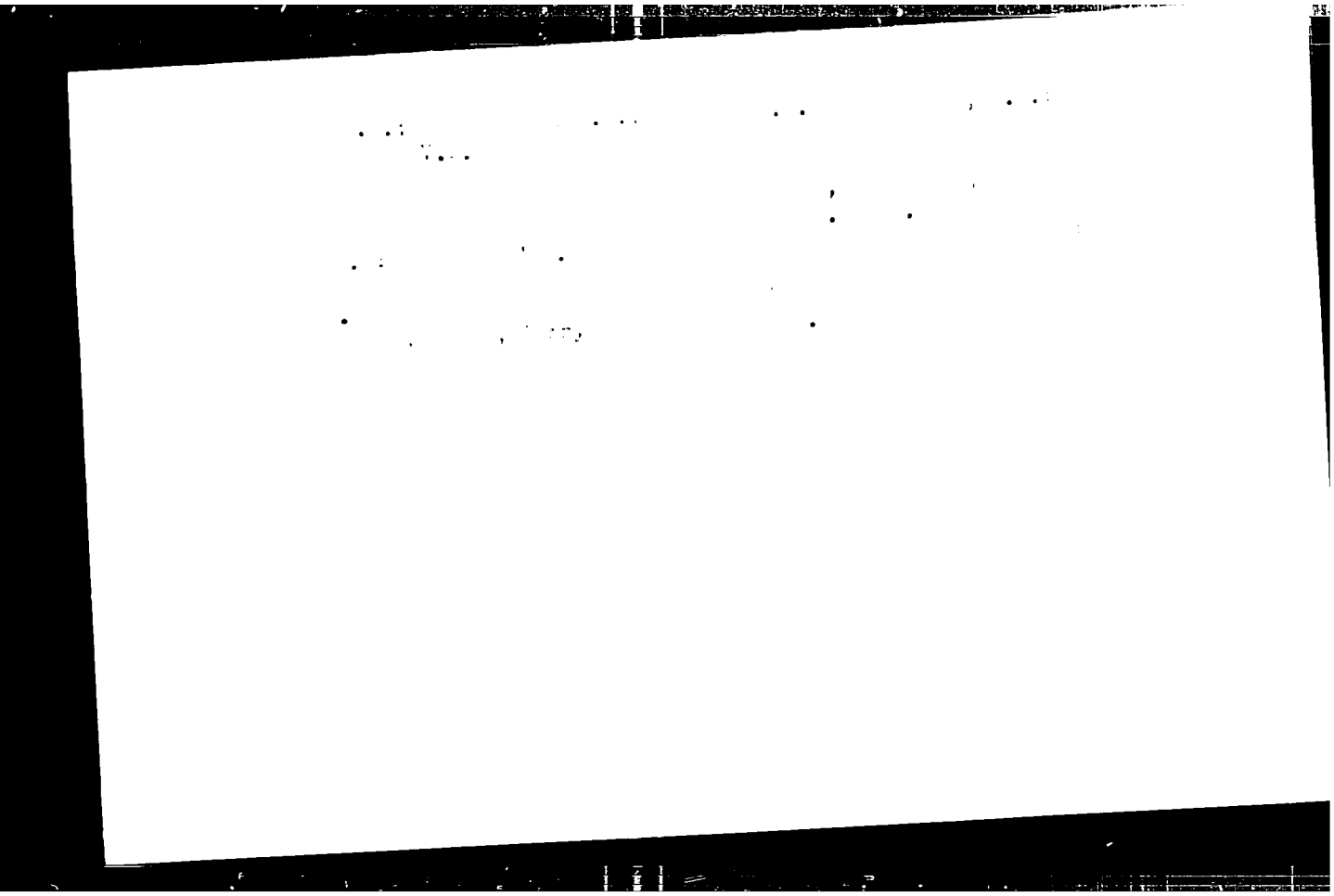
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



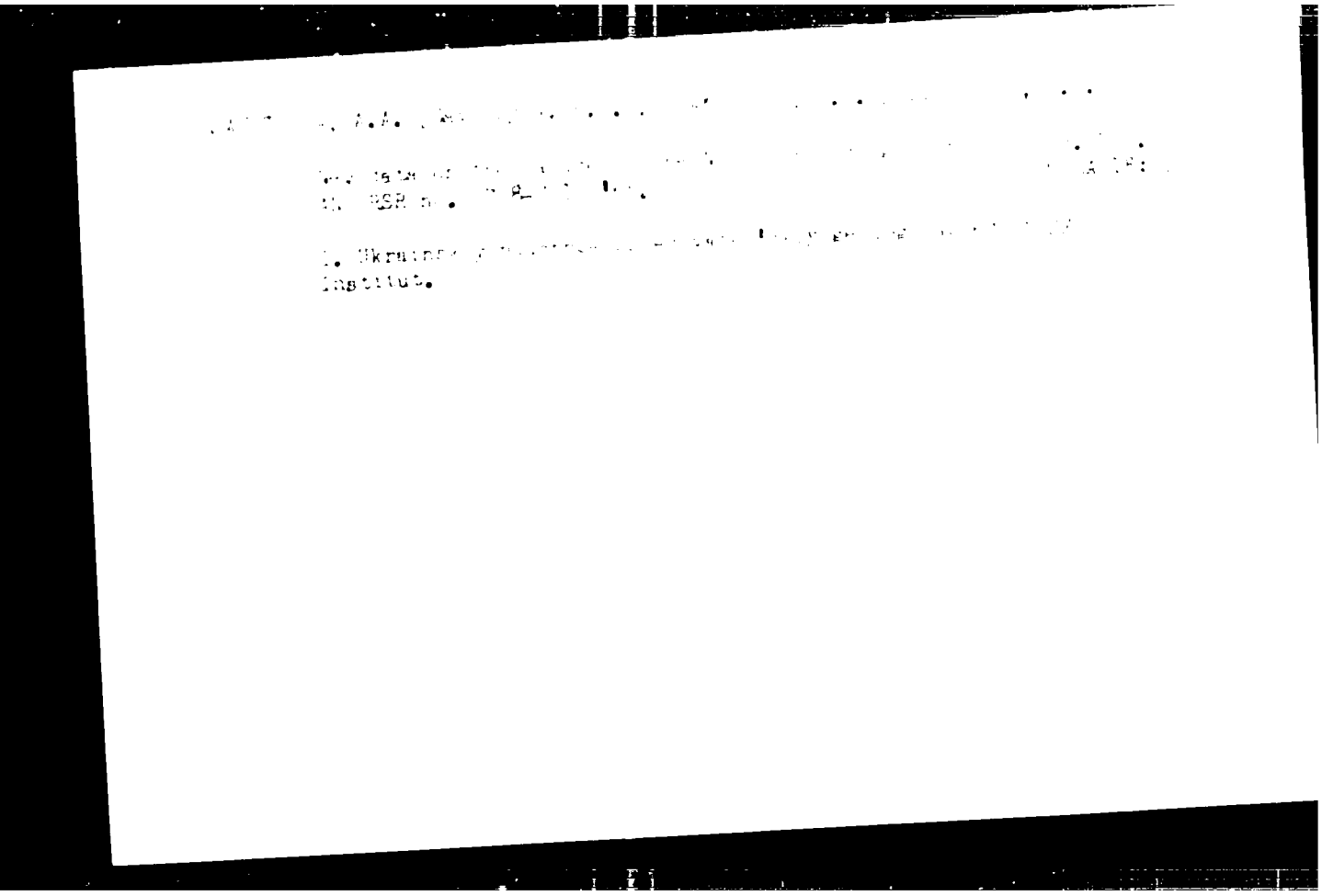
APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ACC NR: [illegible] SOURCE CODE: UR/0432/66/000/003/0026/0027

AUTHOR: [illegible]ov, K. G. (Candidate of technical sciences); Plakhotnyy, N. V.; Lavrinenko, T. V.

ORG: none

TITLE: Ferroelectric memory element with three stable states

SOURCE: Avtomatizatsiya i avtomatizatsiya upravleniya, no. 3, 1966, 26-27

TOPIC TAGS: ferroelectric ceramic, computer memory

SUB CODE:

ABSTRACT: The Kiev Polytechnical Institute is performing investigations on elements and structures based on piezoceramics. One such element is a 3-stable-state ceramic memory element made in the form of a rectangular plate with a piezoelectric film. Two signals (one AC and one DC control) are applied to the element, so that the 3 [illegible] consist of 2 with an alternating signal at the output of the element, the two being differentiated by a phase difference of 180 degrees, plus one with no signal at the output. Testing of models of this device showed that it has high characteristic stability over a wide [illegible] range and high reliability. The authors found that it is possible to create a memory matrix on the basis of these elements. Investigations into manufacturing technology and design are continuing. Orig. art. has: 2 figures. [JPRS: 37,757]

Card 1/1 UDC: 681.142.656

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

MICHKAREVA, V.I., inzh.; SPEKTOR, M.D., kand. tekhn. nauk; KAYTER, A.I., inzh.
PLAKHOTSKIY, I.A., inzh.; PUKHAREV, I.A., inzh.

Porous unkilned fillers for lightweight concrete from pulverized ash of electric power plants. Stroi. mat. 10 no.11:34-35 N '64.
(MIRA 18:1)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

LAKHOTTYA, A.(Col.) and SOLIN, A. (Maj.)

"Spring time maintenance of airdromes."(A concise translation of article, Podgotovka i Ekspluatatsiya Aerodromov v Vesennyi Period, in the R: Air Fleet Herald /Vestnik Vozdushnogo Flota/, Moskva, No. 2, 1954, pp. 62-68.)

SO: D-81755, 3 Sep 1954.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTIYA, A., polkovnik; SULIM, A., inshener-mayor.

Preparation and use of airdromes during the spring. Vest. vozd. fl. 36 no.3:62-68 Mr '54. (MLRA 8:2)
(Airports)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOTTYA, A.

AID - P-48

Subject : USSR/Aeronautics

Card : 1/1

Authors : Plakhottya, A., Col., and Sulim, A., Major Engineer

Title : Preparation and Operation of Aerodromes in Spring

Periodical : Vest. vozd. flota 3, 62 -68, March 1954

Abstract : The author describes the preparation and operation of aerodromes in spring from the time the snow starts to melt. He is concerned with runways, taxiways, and parking areas. Aerodromes with concrete runways, metallic runways, and sodded runways are described separately.

Institution : None

Submitted : No date

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHTIY, A.K.

Working out a system of conventional signs for plans of underground communication lines and structures. Geod. i kart. no. 3:56-60 Mr '61. (MIRA 14:4)
(Maps--Symbols) (Underground construction)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKIDIN, V.L.; YAKOBI, V.A.; POKHILA, S.Ye.; KARPUKHIN, P.P.

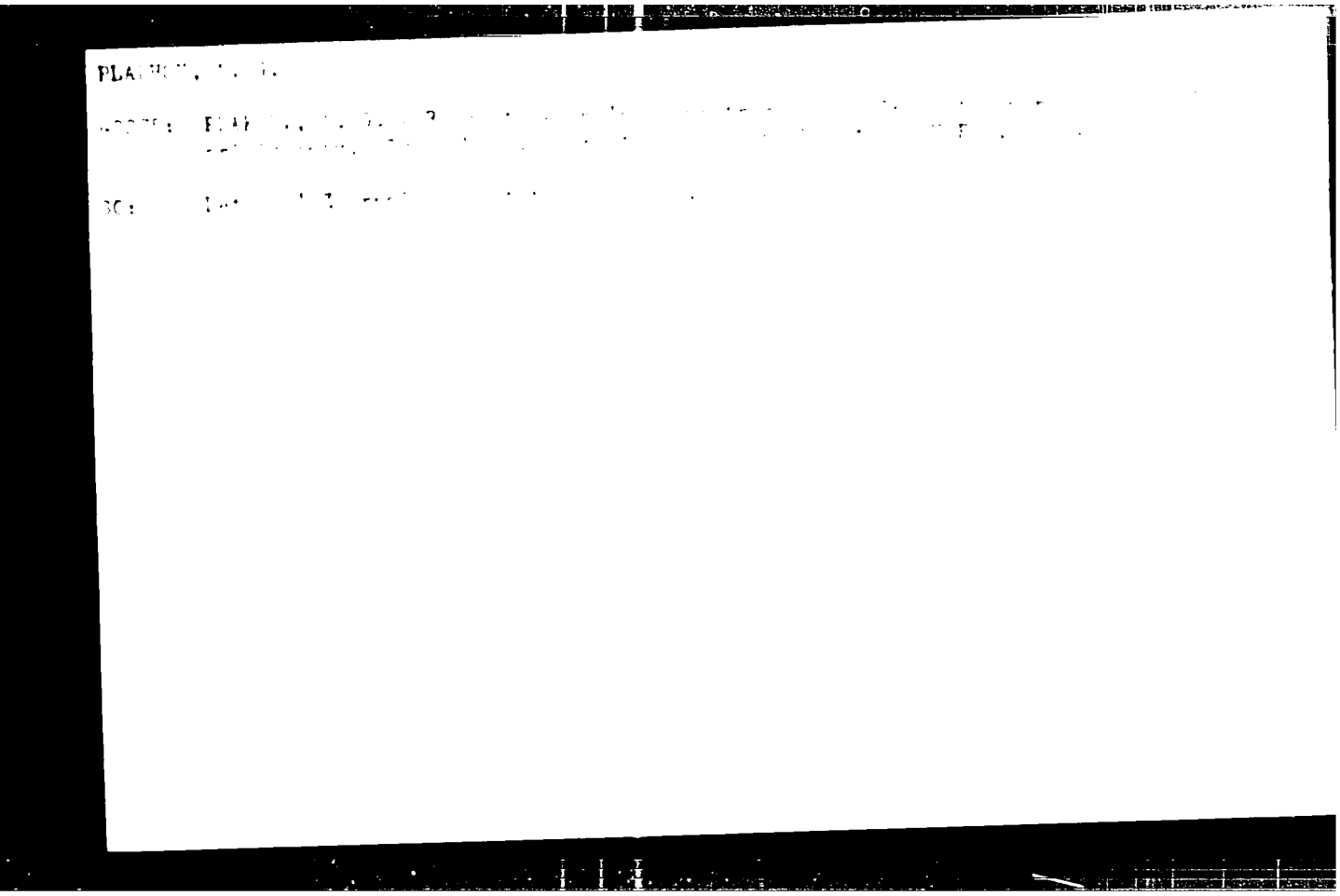
Catalytic oxidation of 2,2-dibenzanthronyl by an ozone-oxygen mixture. Kin.i kat. 3 no.2:292-295 Mr-Ap '62. (MIRA 15:4)

1. Rubezhanskiy khimicheskiy kombinat i Khar'kovskiy politekhnicheskiy institut.

(Benzanthracene) (Oxidation)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

AFONIN, I. P.; GAVRILOV, B. I.; ZAVOYSKIY, Ye. K.; KARMANOV, F. V.; MAKSIMOV, G. P.; PLAKHOV, A. G.; CHEREMNYKH, P. A.; SHAPKIN, V. V.

The experimental plasma apparatus C-1 with screw magnetic fields. Atom. energ. 14 no.2:143-150 F '63. (MIRA 16:1)

(Plasma(Ionized gases)) (Magnetic fields)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, A. G.

USSR/ Nuclear Physics - Luminescent chamber

Card 1/1 Pub. 22 - 12/52

Authors : Zavoyskiy, E. K., Member-Corresp. of the Acad. of Scs. of the USSR; Smolkin, G. E.; Plakhov, A. G., and Butslov, M. M.

Title : Luminescent chamber

Periodical : Dok. AN SSSR 100/2, 241-242, Jan 11, 1955

Abstract : A device for studying nuclear reactions is described. It is given the name "luminescent chamber." In construction, it resembles the Wilson chamber, however it has a higher resolving power in respect to time, and permits the detection of relativistic particles of $10 - 10^{-}$ sec. duration. The registration of such particles is done in the chamber with the help of a series of electron-optical converters. Two USA references (1951-1953). Illustrations; graph.

Institution : .....

Submitted : .....

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, A. G.

SUBJECT USSR / PHYSICS CARD 1 / 2 PA - [illegible]
AUTHOR ZAVOJSKIJ, E.K., BUTLOV, M.M., PLACHOV, A.G., STOL'KIN, V.E.
TITLE On the Luminescence Chamber.
PERIODICAL Atomnaja Energija, 1, fasc. 4, 34-37 (1956)
Issued: 19.10.1956

The present work contains an accurate description of the main elements of this chamber. Such a main element is the electron-optic transformer which is constructed in accordance with the principle of the cascadelike electron-optic amplification of light. This transformer consists of an input- and some amplification-cascades which are connected by an optical contact (a thin film). On one side of the screen a fluorescent screen and on the other a photocathode is fitted. The focussing of the electronic image is discussed. In the domain between aperture and screen two pairs of deflecting lenses are fitted for high frequency development. The inertialess character of this device is of great advantage; it permits a development in cadres and a continuous high frequency development with a resolving time of 10^{-8} and 3.10^{-12} sec respectively. In the case of static operation all cascades are fed by a sectioned high frequency source. For the recording of the traces of the cosmic rays a pulse-like method of feeding the output cascade was, however, selected. In frequent cases the cascade is fed with a pulselike high tension by means of special circuits. "Impulse shutters" are synchronized by means of a photomultiplier, a discriminator and a coincidence scheme (with a resolving power with respect to time of 4.10^{-8} sec). The mode of operation of the luminescence chamber is-

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

C-2

USSR/Nuclear Physics

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11016

Author : Babykin, M.V., Prakhov, A.G., Skachkov, Yu.F., Shapkin, V.V.

Inst : Not given

Title : Plane-Parallel Spark Counters for the Measurement of Small Times.

Orig Pub : Atom. energiya, 1956, No 4, 38-45

Abstract : Report on the results of a work on the improvement of the time characteristics of plane-parallel spark counters by reducing the gaps between the electrodes and using sectionalized electrodes. A telescope consisting of two counters, the construction of which is described, is used to measure the dispersion in the delay of the pulses from cosmic particles, passing through both sensitive volumes. Thanks to the use of semi-transparent electrodes on glass.

Card 1/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

USSR/Nuclear Physics C-2

Abs Jour : Referat Zhur - Fizika, No 5, 1957, 11016

the counters can be investigated with the aid of an electron-optical converter. The counter is operated at a voltage of 2 -- 3 kv with an interelectrode gap of 0.2 mm. The first results permit the conclusion that the dispersion in the delays does not exceed 4 x 10^{-10} seconds. Tests on a counter with an electrode divided up into 49 separate parts (electrode dimensions 21 x 21 mm) have shown that it is possible to reduce in this way the dead time of the counter and raise the counting rate to 1.6 x 10^5 pulses per second. Owing to the ion and optical coupling between the neighboring sections, the sectionalized counter does not have a broad working characteristic. The counters were filled with a mixture of argon and diethyl ether vapors to a total pressure of 3 -- 10 atmos. The increase in the partial pressure of the ether vapors to 400 mm mercury leads to an improvement in the counter characteristics. When the distance between electrodes is 0.3 mm and the

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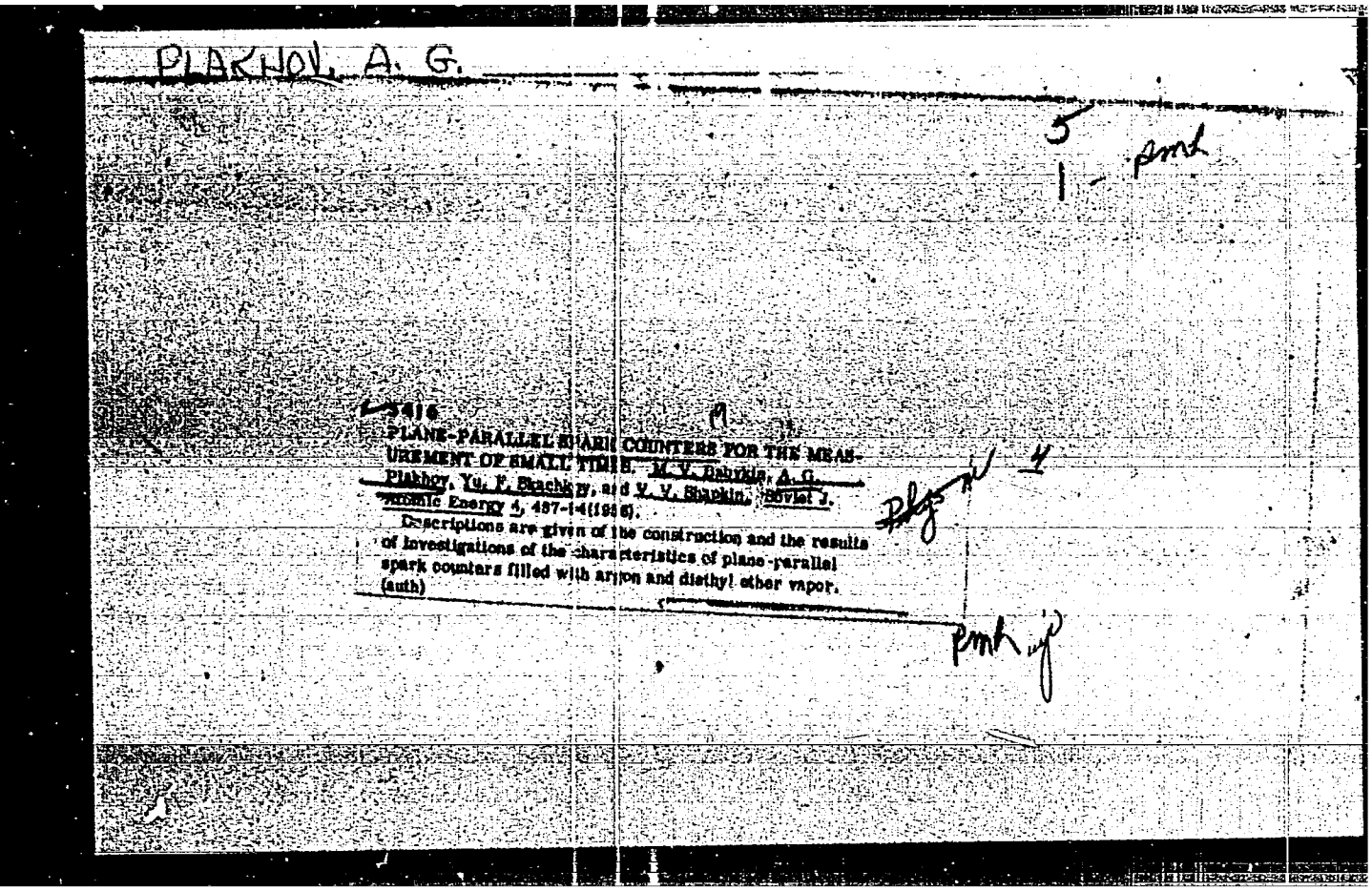
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



PLAKHOV, A. G.

5
1 - pmk

5416
PLANE-PARALLEL SPARK COUNTERS FOR THE MEASUREMENT OF SMALL TIMES. M. V. Babiche, A. G. Plakhov, Yu. F. Plachkov, and V. V. Shapkin. Soviet J. Atomic Energy 4, 457-14(1956).
Descriptions are given of the construction and the results of investigations of the characteristics of plane-parallel spark counters filled with argon and diethyl ether vapor. (auth)

Pmk

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

BUTSLOV, M.M.; ZAVOSKIY, Ye.K.; PLAKHOV, A.G.; SMOLKIN, G. Ye.; FANCHENKO, S.D.

Electron optical method of the photography of ultrahigh-speed processes. Usp.nauch.fot. 6:84-89 '59. (MIRA 13:6)
(Electron optics)
(Photography, Instantaneous--Scientific applications)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

L 11950-66 EWT(1)/ETC(F)/EPF(n)-2/EWG(m) LIP(c) AT

ACC NR: AP6000740 SOURCE CODE: UR/0386/65/002/009/0426/0430

AUTHOR: Blinov, P. I.; Zakatov, L. P.; Plakhov, A. G.; Chikin, R. V.; Shapkin, V. V.

ORG: none

TITLE: Influence of the mirror ratio on plasma heating by an electron beam in a "probkotron"

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 2, no. 9, 1965, 426-430

TOPIC TAGS: magnetic mirror machine, plasma interaction, plasma heating, ionized plasma, plasma electron temperature, electron gun, plasma injection

ABSTRACT: The authors investigated the interaction between an electron beam and a ready-made highly ionized plasma. The apparatus (Fig. 1) comprises a trap with magnetic mirrors. The electron gun is located on the trap axis behind the mirrors on one end, and the plasma injector is located on the other end. The electron gun operates in a pulsed mode. The square-wave voltage pulse is of 450 μsec duration and 9 kv amplitude, the pulse current being 5 a. The plasma and the electron beam are injected into the trap simultaneously. The residual pressure in the chamber is 10^{-6} mm Hg. The electron density was measured with a microwave interferometer (λ = 3 cm). The quantity nT (T = plasma temperature) was determined from the diamagnetic effect. The bremsstrahlung was registered by photomultiplier with NaI(Tl) crystal. When the plasma and the electron beam are simultaneously injected in the plasma, the concentration does not rise, but the energy released by the plasma increases strongly. The presence of

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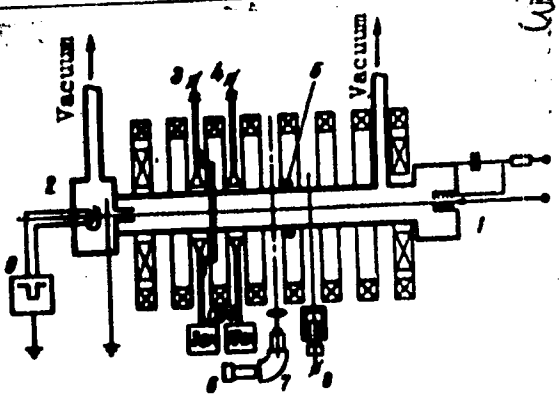
ACC NR: AP6000740

Fig. 1. Diagram of setup. 1 - Plasma injector, 2 - electron gun, 3, 4 - microwave source, 5 - diamagnetic probe, 6, 7 - electron-optical and spectral apparatus, 8 - bremsstrahlung recorder, 9 - low-voltage pulsed source.



"hot" electrons in the trap is evidenced by the prolonged, intense, and hard bremsstrahlung. The efficiency with which the plasma electrons are heated by the beam depends on the mirror ratio. As the mirror ratio is varied from 1.8 to 4, the plasma pressure increases tenfold. The plasma lifetime in the trap increases. A group of "hot" electrons, with a prolonged confinement time and with density close to 10^{10} cm^{-3} appears. Accordingly, the energy lost by the electron beam to plasma heating increases from fractions of one percent to 3.5%, and during the initial stage of the heating (the first 90 μsec) the loss reaches 10%. The influence of the mirror ratio on the heating of plasma with direct current was observed also in experiments of M. V.

21, 44, 55

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

L 11950-66
ACC NR: AP6000740

Babykin et al. Authors are grateful to Ye. K. Zavoiskiy 44,55 for continuous interest and valuable advice. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 09Sep65/ ORIG REF: 005/ OTH REF: 002

Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

L 21556-66 EWT(1)/EWG(m)/EPF(n)-2 IJP(c) AT

ACC NR: AP6008752 SOURCE CODE: UR/0386/66/003/006/0255/0258

AUTHOR: Blinov, P. I.; Zakatov, L. P.; Plakhov, A. G.; Chikin, R. V.; Shapkin, V. V. 48

ORG: Institute of Atomic Energy im. I. V. Kurchatov (Institut atomnoy energii) 64

TITLE: Influence of magnetic-field configuration on the heating and containment of B a plasma in a mirror trap (Probkotron)

SOURCE: Zhurnal eksperimental'noy i teoreticheskoy fiziki. Pis'ma v redaktsiyu. Prilozheniye, v. 3, no. 6, 1966, 255-258

TOPIC TAGS: magnetic mirror, plasma containment, plasma heating, magnetic trap, plasma radiation, electron beam

ABSTRACT: This is a continuation of earlier experiments on heating of a plasma by an electron beam in a mirror trap (ZhETF Pis'ma v. 2, 426, 1965), aimed at showing that heating and containment of the plasma depend strongly on the distribution of the magnetic field along the trap axis. The experiment was carried out with the earlier installation, which made it possible to operate with two different configurations of the magnetic field (Fig. 1). The mirror ratio and the field in the center remained unchanged in both cases. The plasma initial density was 10^{12} cm^{-3}. A pulsed beam of electrons with current strength 1 a, energy 10 kv, and duration 500 μsec was injected into this plasma. The heating and decay of the plasma were investigated by measuring the time variation of the energy content (nT) and of the density n. On going over from a field configuration with local mirrors (a) to a configuration with extended mirrors (b) the maximum value of nT increases by a factor 1.5. The value of nT of the

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ACC NR: AP6008752

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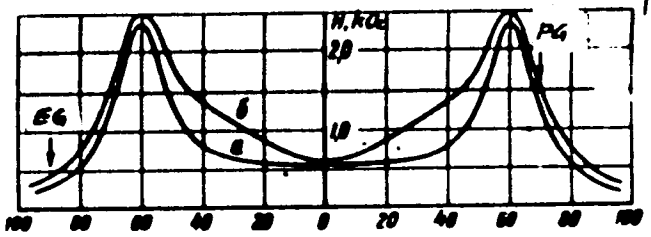

Fig. 1. Distribution of the magnetic field of the trap. The arrows indicate the locations of the guns: electron (EG) and plasma (PG).

hot electrons was three times larger in the field configuration with extended mirrors than in the configuration with the local mirrors, and the decay time was 20 and 2 μsec in the two cases, respectively. The time variation of the electron density was similar to that of nT. The prolonged containment of hot electrons in a trap with extended mirrors was evidenced also by the x-ray bremsstrahlung, which is observed for 100 msec. It is therefore concluded that the heating and containment of the plasma by a pulsed electron beam increase on going from a mirror trap with local mirrors to a mirror trap with extended mirrors. This may be due not only to the more effective transfer of energy from the beam to the plasma, but also to improvement in the containment of the hot electrons in the field with extended mirrors. Authors are sincerely grateful to A. V. Gordeyev and G. V. Sholin for useful discussion, and also to G. A. Rudinteeva and G. M. Rumsteeva for furnishing the cathodes. Orig. art. has: 3 figures.

SUB CODE: 20/ SUBM DATE: 06 Feb66/ ORIG REF: 001

Card 2/2 BLG

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

BLINOV, P.I.; ZAKATOV, L.P.; PLAKHOV, A.G.; CHIKIN, R.V.; SHAPKIN, V.V.

Effect of the mirror ratio on the heating of a plasma by an electron beam in a magnetic trap. Pis'. v red. Zhur. eksper. i teoret. fiz. 2 no.9:426-430 N '65. (MIRA 18:12)

1. Submitted September 9, 1965.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

BUTSLOV, M.M.; PLAKHOV, A.G.; SHAPKIN, V.V.; YASHIN, N.M.

Electron-optical recording of the radiation from a faintly luminescent plasma. Opt. i spektr. 16 no.2:329-334 F '64. (MIRA 17:4)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ACCESSION NR: AP4020938 S/0051/64/016/002/0329/0334

AUTHOR: Butslov,M.M; Plakhov,A.G.; Shapkin,V.V.; Yashin,N.M.

TITLE: Electron-optical recording of the radiation from weakly luminous pulse-discharge plasma

SOURCE: Optika i spektroskopiya, v.16, no.2, 1964, 329-334

TOPIC TAGS: plasma, plasma diagnostics, plasma spectroscopy, time-resolved study, plasma intensity distribution, line contour, faint plasma, weak plasma, helium plasma, helium(I), image intensifier, image converter, image translator, light amplifier

ABSTRACT: Conventional procedures for spectroscopic observation and diagnosis of weakly luminous short-lived (pulse-discharge) plasmas have a number of obvious shortcomings; even when employing fast photographic plates or sensitive photomultipliers it is generally necessary to record the radiation from several hundred discharges, in the course of which the conditions may change. Accordingly, recently several investigators have turned to the use of electron-optical image intensifiers (image converter tubes) with light amplification (V.F.Bolotin,Ye.K.Zavoysky, M.N. Oganov,G.Ye.Smolkin and A.R.Striganov, Izv.AN SSSR,Ser.fiz.27,986,1963; I.F.Bala-

Card 1/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ACC.NR: AP4020938

shov, M.P.Vanyukov, V.R.Muratov and Ye.V.Nilov,Opt.i.spektr.9,790,1960; Ibid.10, 540,1931). In the present paper there is described a procedure for recording the radiation from weakly luminous pulse-discharge plasmas, involving the use of an electron-optical image converter with a controlled PIM-3 input stage (M.M.Butslov, Sp.nauchn.fotografii,6,76,1959) and five light amplification stages. The electron image in the amplifying stages is focused by means of magnetic coils, similar to coils used in electron microscopes. The image scan in the input stage is realized by saw-toothed oscillators capable of providing 0.5, 1.5, 3, 6 or 12 millisec durations. The input stage sweep is driven and operates for the period of the scan. The sweep length on the screen of the converter is 30 mm. The image converter was tested in conjunction with a plasma device with helical fields. For spectroscopic measurements the tube was coupled to an ISP-51 spectrograph. Several time-resolved spectrograms of helium plasma are reproduced; in one figure a time-resolved section of the helium spectrum is compared with the spectrum photographed directly with an exposure of 200 pulse discharges. The image converter was also coupled to a Fabry-Perot interferometer for the purpose of obtaining time-resolved studies of individual line contours. This setup is diagramed. With the aid of the electron-optical image intensifier one can also obtain information on the spatial distribution in terms of selected monochromatic radiation in weakly luminous plasmas; this is rea-

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ACC.NR: AP4020938

lized by the introduction of another pair of deflecting plates. Orig.art.has: 5 figures.

ASSOCIATION: none

SUBMITTED: 24May63 DATE ACQ: 02Apr64 ENCL: 00

SUB CODE: PH,SD NR REF SOV: 007 OTHER: 000

3/3
Card

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

S/120/62/000/006/019/029
E140/E435

AUTHORS: Levin, G.L., Markov, A.A., Plakhov, A.G., Smolkin, G.Ye. Sofiyev, G.N., Stepanov, G.N., Shapkin, V.V.

TITLE: Line and frame scanning generator for electron-optical image intensifiers

PERIODICAL: Pribory i tekhnika eksperimenta, no.6, 1962, 100-106

TEXT: The authors discuss the use of image-intensifier tubes for the spectroscopic and space-geometric study of pulsed gas discharges in plasma studies (controlled thermonuclear synthesis). The system permits spectral analysis of dynamic processes with time resolution in the range 5×10^{-8} to 1.25×10^{-5} sec. A five-stage intensifier is used. Free-running and triggered versions are used, the latter to reduce background noise where necessary. There are 6 figures.

ASSOCIATION: Institut atomnoy energii AN SSSR
(Institute of Atomic Energy AS USSR)

SUBMITTED: January 25, 1962

Card 1/1

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

BUTSLOV, M.M.; PLAKHOV, A.G.; SHAPKIN, V.V.

High-intensity electron-optical system for spectral studies of a plasma. Opt. i spektr. 12 no.3:419-423 Mr '62. (MIRA 15:3)
(Electron optics) (Plasma (Ionized gases)--Spectra)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

s/051/62/012/003/010/016
E202/E435

24326

AUTHORS: Butslov, L.D., Glushov, A.A., Shapiro, V.V.

TITLE: High intensity electron-optical system for spectral investigation of plasma

PERIODICAL: Optika i spektroskopiya, 1962, Vol. 12, No. 3, pp. 413-416

TEXT: Electron-optical system consisting of a single-stage pulse converter and coaxial electrostatic focusing and quadrupole magnetic lens was tested and studied. The reason for the building of the instrument was a practical need of low luminosity impulse plasmas which had to be recorded in ordinary instruments. The general design represents a further development of a previously described design. The advantage of this type of lens lies in the possibility of changing the scale of the electron image along two mutually perpendicular axes without impairing the quality of the picture. This was utilized by reducing the height of the spectral line giving good time resolution in continuous linear scanning, while widening the width of the line, i.e. increasing the dispersion of the system. The arrangement is shown diagrammatically (Fig.4).

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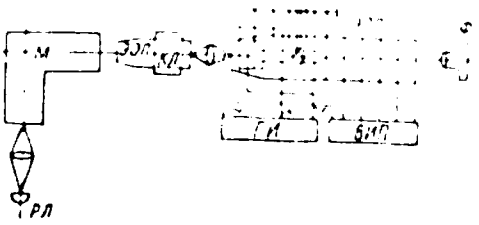
High intensity electron-optical ...

There are 5 figures.

SUBMITTED: March 1, 1[illegible]

Fig.4.



РЛ - H_2 lamp; М - monochromator; КЛ - quadripole lens;
ЭОП - electron-optical converter; ГИ - impulse generator;
БИП - HT supply; Ф - camera.

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APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ACC NR: AP7003317 SOURCE CODE: UR/0413/66/000/002/...

AUTHOR: Kareyev, M. F.; Plakhov, A. N.; Zheglov, V. A.; Krenta[illegible]

ORG: None

TITLE: A device for automatically controlling the rate of motion of ... a horizontal hydraulic press. Class 21, No. 188543 [announced by ... Scientific Research and Design and Planning Institute of Metallurgi... ing (Vsesoyuznyy nauchno-issledovatel'skiy i proyektno-konstruktorsk... metallurgicheskogo mashinostroyeniya)]

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, ... 1966, 52

TOPIC TAGS: metal press, automatic control equipment, electronic ... nt

ABSTRACT: This Author's Certificate introduces a device for automat... ly control-ling the rate of motion of the plunger on a horizontal press. The ... contains an amplifier and a DC-AC inverter. The installation is designed to hand... a wide range of velocities, to improve efficiency at low velocity and to eliminate ... zone of insensitivity and slow response. A master signal and a feedback signa... are sent to the inputs of a discrete-analog comparator in the regulator, while the ... tput of this comparator is connected through the inverter to a VFO which is connect... through a

Card 1/2

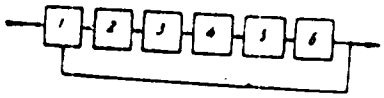
UDC: 621.3.078.4-531.6:62...979-82

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ACC NR: AP7000317

rectifier unit to the actuating step-by-step motor.



1--discrete-analog comparator; 2--inverter; 3--amplifier; 4--VFO; 5--rectifier unit; 6--step-by-step motor

SUB CODE: 13, 09/ SUBM DATE: 28May64

Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

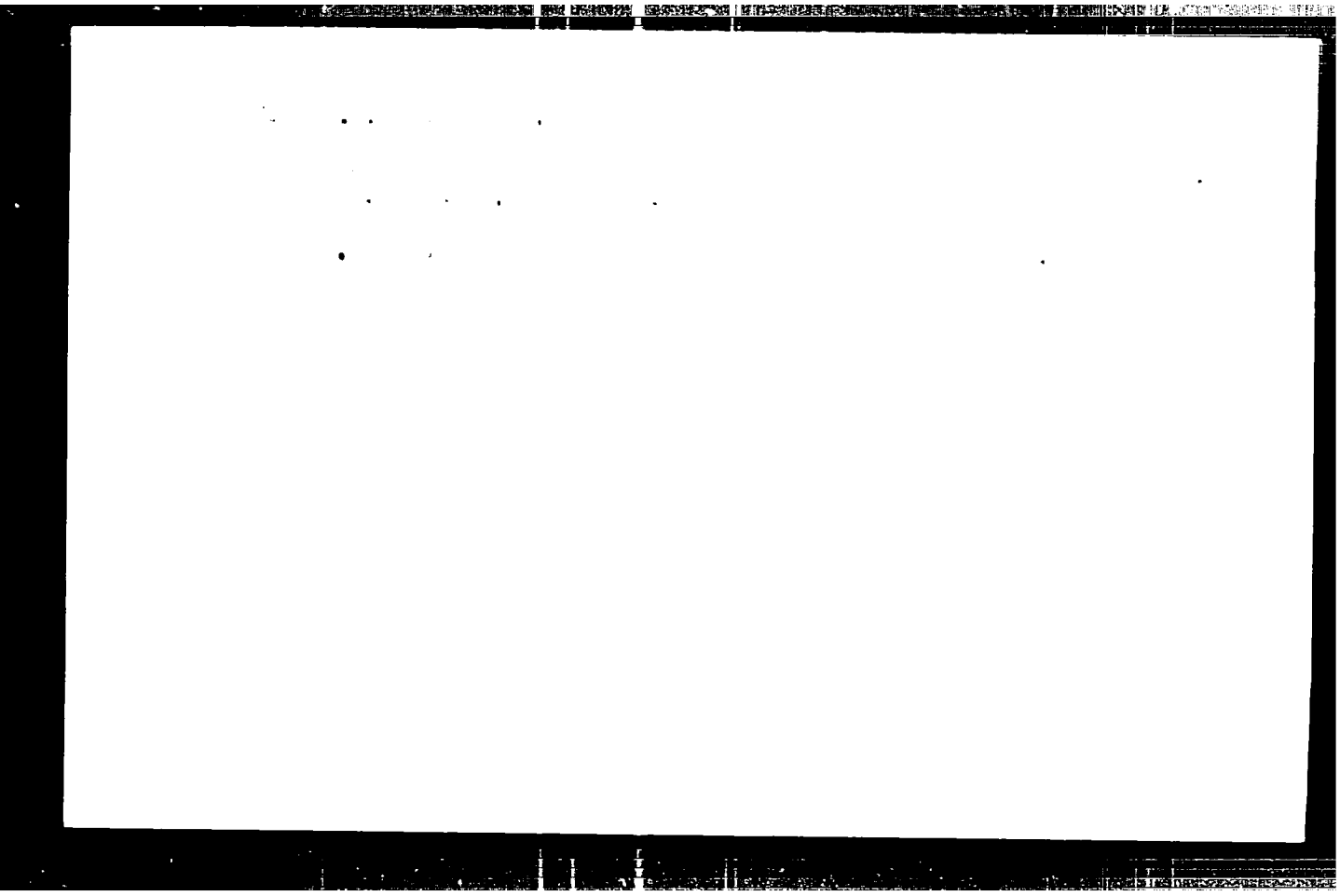
IVANOV, V.S. (Leningrad); PLAKHOV, L.D. (Leningrad)

Vibrations of a circular ring carrying a concentrated mass.
Insh. zhur. 3 no.3:482-489 '63. (MIRA 16:10)

(Elastic plates and shells--Vibration)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, I.I.; RUMYANTSEV, A.D.

Paper pulp composition regulator. Bum.prom. 37 no.3:28-29 Mr '62.
(MIRA 15:3)

1. Zamestitel' direktora Svetogorskogo tsellyulozno-bumazhnogo kombinata (for Plakhov). 2. Zamestitel' glavnogo konstruktora Svetogorskogo tsellyulozno-bumazhnogo kombinata (for Rumyantsev).
(Svetogorsk--Papermaking machinery)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, V.N.

From practices in the [illegible] of mechanized [illegible] means of mechan.za[illegible]tion. Der. [illegible] no. [illegible]

[illegible] Upravleniya [illegible] brat[illegible] [illegible] [illegible] [

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

NAGINA, A.Ya.; PLAKHOV, S.M.

Centrifugal casting of capron parts. Biul.tekh.-ekon.inform. Gos. nauch.-issl.inst.nauch.i tekh.inform. no.12:29-31 '61. (MIRA 17:3)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, S.M.

Sprayers made of polyamides. Mashinostroitel' no.5:21-22 My '62.
(MIRA 15:5)

(Plastics)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, S.M.

Sprinkling dust-eliminating sprayers made of polyamides. Biul.tekh.-ekon.inform.Gos.nauch.-issl.inst.nauch. i tekh.inform. no.4:14-15 '62. (MIRA 15:7)

(Coal mines and mining--Equipment and supplies)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

KORYUSHENKO, N.A.; LITUNOV, V.S.; PLAKHOV, S.M.

Centrifugal casting of parts of capron. Mashinostroitel' no.12: 33-34 D '60. (MIRA 13:12)
(Plastics--Molding)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

S/117/6[illegible] / [illegible]
A[illegible]

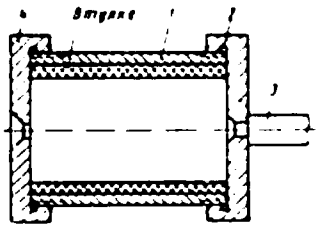
AUTHORS: Koryushenk[illegible], N. A., Litunov, V. S., Plakhov, [illegible]

TITLE: Centrifugal Casting of Caprone Parts

PERIODICAL: Mashinostroitel', 196[illegible], No. 12, p[illegible]

TEXT: The collaborators of the Rostovskiy zavod "Krasnyy Aksay" ([illegible] "Krasnyy Aksay" Plant) in cooperation with the laboratoriya plastmass Nauchno-issledovatel'skogo instituta tekhnologii mashinostroyeniya (Laboratory of [illegible] of the Scientific Research Institute of Mechanical Engineering Technology [illegible] developed and introduced in production the centrifugal casting of caprone parts, where the pair is cast directly in the [illegible]. Figure 1 shows the metal [illegible] mold for the casting [illegible] bushings, comprising of shell 1, cover 2 with [illegible] and cover 4 with [illegible] cone. The bushings are manufactured in the following way: a weighed part of caprone is put into [illegible] and melted with the aid of a heating installation, [illegible] muffel, gas burner, [illegible] current renewal [illegible]

Figure 1:



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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

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A004/A001

Centrifugal Casting of Caprone Parts

point of the caprone can be determined by a thermocouple placed in the interior of the mold (melting point 230 - 240°C) or by a sensor. The mold with the cast caprone is clamped in a lathe chuck, while the live center of the tail stock is set in the cone of cover 4. Then the mold is rotated until it is cooled down to 100 - 120°C. After the casting process the bushing should be treated with hot water, 15 minutes per 1 mm of component thickness. Figure 2 shows a mold for the manufacture of caprone bushings of small diameter, while Figure 3 shows a press-mold for the manufacture of caprone gears with metal inserts. The press-mold is composed of a conical body 1, ring 2 for the teeth, locator 3, ring 4, and cover 5. Figure 4 shows the simple design of an assembly press-mold for the casting of caprone cups, consisting of

Figure 2:

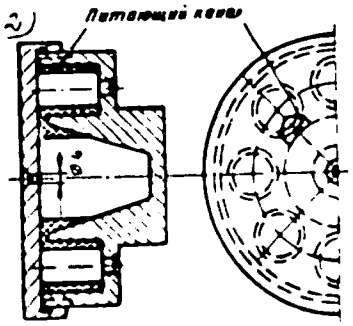
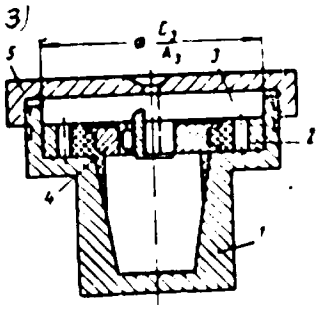


Figure 3:



Card 2/3

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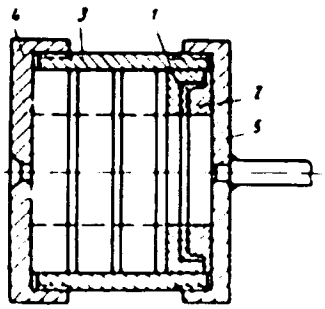
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Centrifugal Casting of Caprone Parts

parts 1 and 2, magazine mold 3 and covers 4 and 5. For the centrifugal [illegible] process degreasing and drying of the caprone is only of secondary importance [illegible] parts from caprone not being pre-treated possess high physico-mechanical properties. The lighter impurities remaining in the raw material are driven to the inner surface of the component by the effects of the centrifugal force. The contaminated caprone layer [illegible] be eliminated after casting by boring the inner [illegible] of the bushing. For sleeve bearings operating under conditions of insufficient lubrication a caprone-graphite composition with 40% graphite content [illegible] There are 1 figure.

Figure 1:



Card 3/3

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

KOPTYUG, V.A.; PLAKHOV, V.A.

Steric hindrance and reactivity of organic compounds. Part 4: Certain characteristics of the ultraviolet absorption spectra of peri-substituted naphthalenes. Zhur. ob. khim. 32 no.1: 256-259 Ja '62. (MIRA 15:2)

1. Novosibirskiy institut organicheskoy khimii Sibirskogo otdeleniya AN SSSR i Moskovskiy khimiko-tekhnologicheskiy institut imeni Mendeleyeva.

(Naphthalene--Spectra)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

DENISOVA, L...; MOROZOVA, N.A.; FLAKHOV, V.A.; TOCHILKIN, A.I.

Nitration of 1,8-dimethylnaphthalene and synthesis of its nitro- and amino derivatives. Zhur.ob.khim. 34 no.2:519-525 F '64.(MIRA 17:3)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

KOPTYUG, V.A.; GERASIMOVA, T.N.; PLAKHOV, V.A.

Isomeric transformations of sulfones of the napthtalene series in the presence of metal halides. Zhur.ob.khim. 31 no.5:1611-1621 My '61. (MIRA 14:5)

1. Moskovskiy khimiko-tekhnologicheskiy institut imeni D.I.Mendeleyeva.
(Sulfone) (Isomerization)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

KOPTYUG, V.A.; PLAKHOV, V.A. (Moskva)

Ultraviolet absorption spectra of sulfones in the naphthalene series.
Zhur. fiz. khim. 35 no. 4:887-891 Ap '61. (MIRA 14:5

1. Khimiko-tekhnologicheskiy institut im. D.I. Mendeleyeva.
(Sulfone—Spectra)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ACCESSION NR: AP5005554 S/0079/65/035/002/0350/0352

AUTHOR: Bokanov, A. I.; Plakhov, V. A.

TITLE: Synthesis of p-chlorophenyldichlorophosphine

SOURCE: Zhurnal obshchey khimii, v. 35, no. 2, 1965, 350-352

TOPIC TAGS: phosphine, phenyldichlorophosphine, chlorobenzene

ABSTRACT: A method has been developed for separating p-chlorophenyldichlorophosphine from the isomeric mixture obtained by Baldwin's method (J. Org. Chem. v. 26, 3547, 1961) from chlorobenzene, phosphorus trichloride and aluminum chloride. Hydrolysis in a boiling ethanol-hydrochloric acid mixture and recrystallization gave a 70% yield of p-chlorophenylphosphonous acid. The latter was converted at room temperature with phosphorus trichloride to give a yield of 80% p-chlorophenyldichlorophosphine after vacuum rectification. Infrared spectroscopy indicated that the initial isomers contain mainly the p-isomer, whereas Baldwin reported preparation of a mixture of equal amounts of p- and o-isomers. The total yield of purified p-isomer was 50-55%. Orig. art. has: 1 figure and 1 formula.

ASSOCIATION: Moskovskiy khimiko-tekhnologicheskiy institut imeni D. I. Mendeleyeva (Moscow chemical engineering institute)

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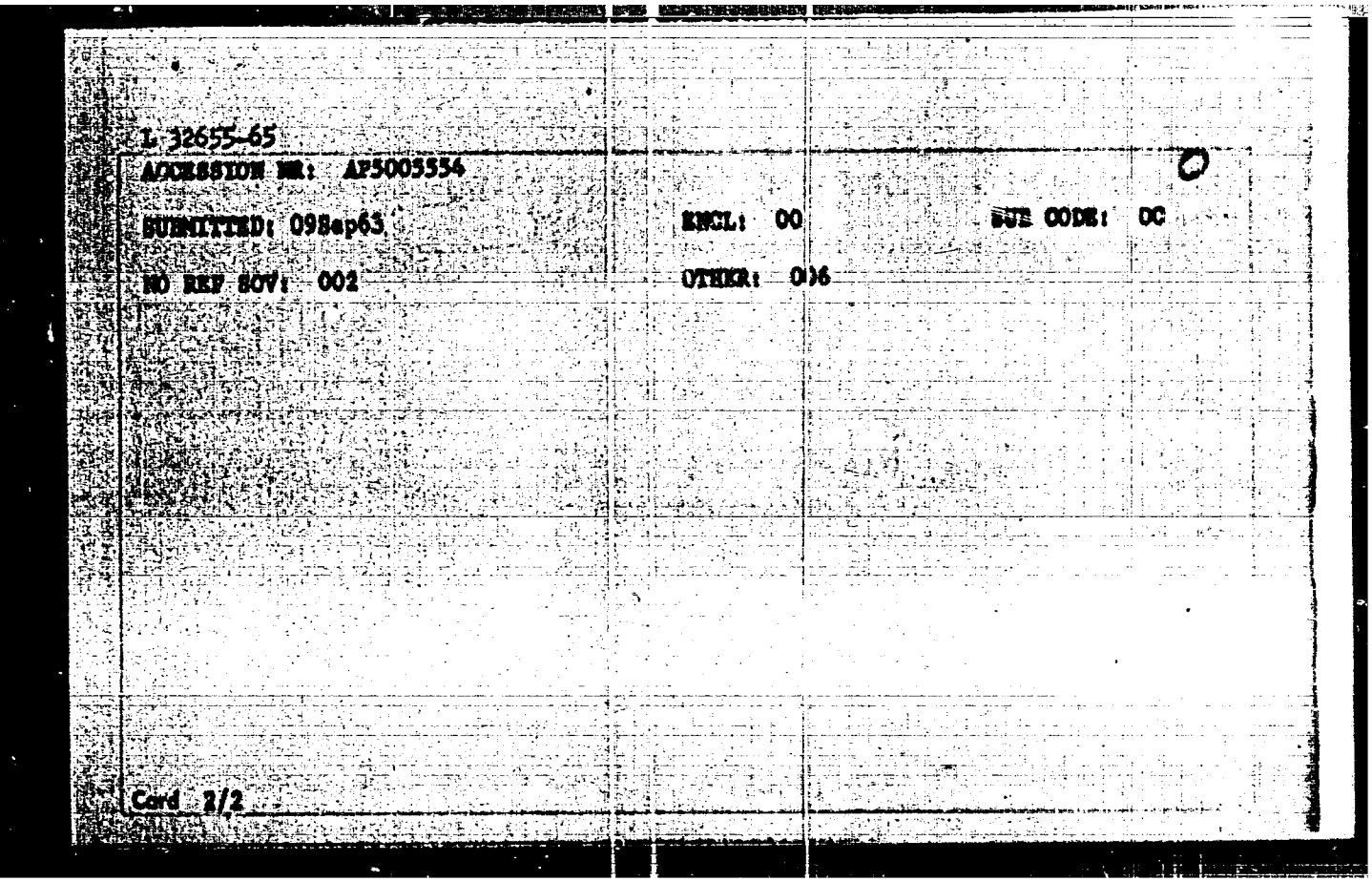
"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341



L 32655-65
ACCESSION NR: AP5005534
SUBMITTED: 09Sep63 ENCL: 00 SUB CODE: OC
NO REF SOV: 002 OTHER: 006
Card 2/2

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, Veniamin Semenovich

DECEASED
C. '63

1964

Marine Power Plants

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

AUTHOR Plakhov, V. N.

TITLE. Interlocking, Signalization and Synchronisation of the Operation of Coke Oven Machines on an Alternating Current (Blokirovka, signalizatsiya i sinkhronizatsiya raboty mashin koksovogo tsekha na peremennom toke)

PERIODICAL. Koks i Khimiya 1956, Nr 2, pp 53-54 (USSR)

ABSTRACT A new scheme of interlocking, signalisation and synchronisation proposed for the Voroshilovskiy Plant is described. It is claimed that with the scheme the possibility of a wrong signal caused by any defect in operation is excluded
There is one figure.

ASSOCIATION Voroshilovskiy koksokhimicheskiy zavod (Voroshilovskiy Coke Oven Works)

systems

Card 1/1

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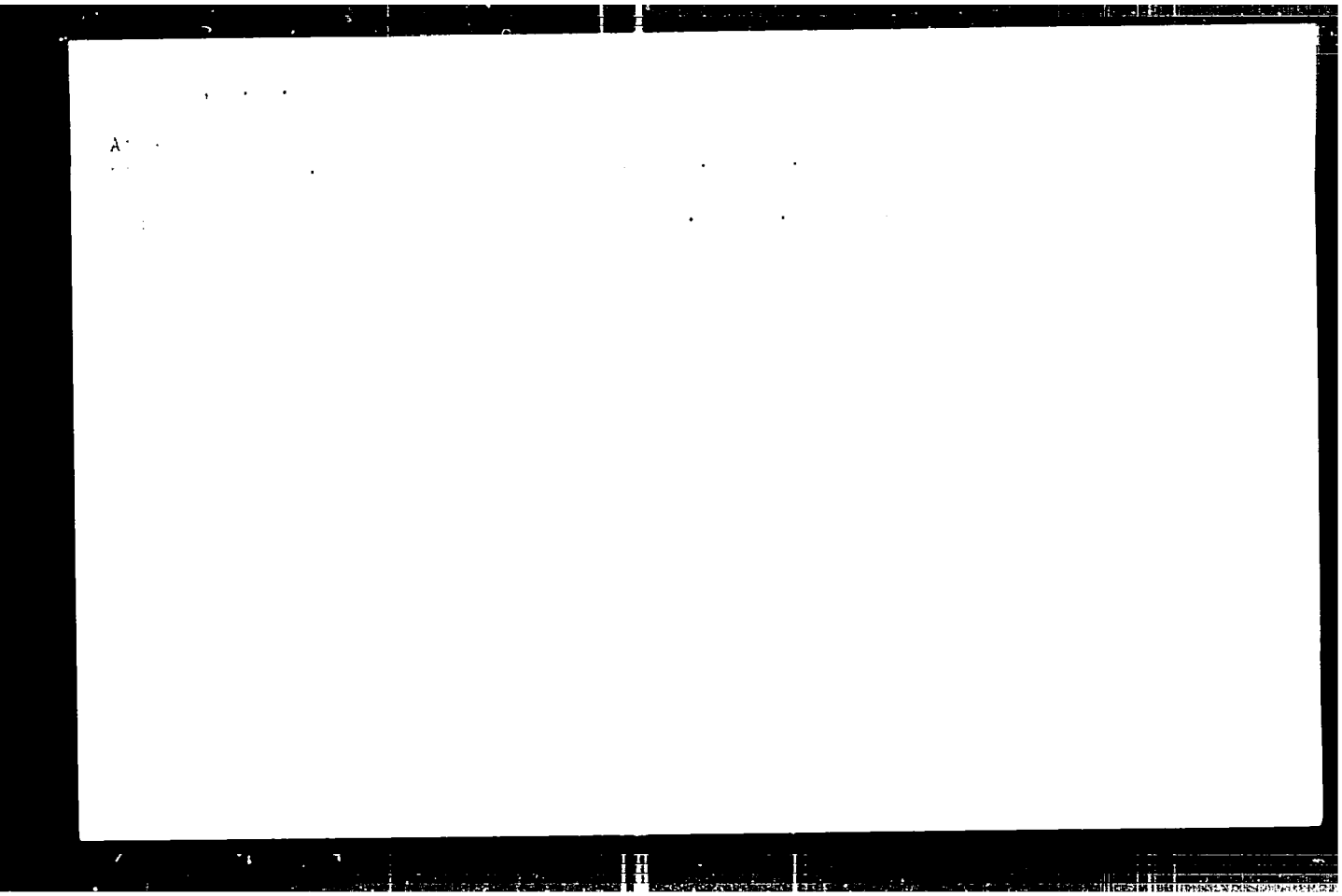

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, Yu.

Some theoretical problems in connection with the determination of the polar constriction of the earth on the basis of lunar parallax.
Trudy MIIGAIK no.30:31-34 '58. (MIRA 12:3)

1. Kafedra astronomii Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i kartografii.
(Earth--Figure)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, Yu., student

Solar eclipses and the figure of the earth; general theory. Trudy MIIGAIK no.30:73-90 '58. (MIRA 12:1)

1. Kafedra astronomii Moskovskogo instituta inzhenerov geodezii, aerofotos"yemki i kartografii.
(Earth--Figure) (Eclipses, Solar)

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PLAKHOV V.

SOV/2072

3(4) PHASE I BOOK EXPLOITATION

Moscow. Institut inzhenerov geodezii, aerofotos "yemki i kartografii

Trudy, vyp. 30 (Transactions of the Moscow Institute of Geodetic, Aerial Survey and Cartographic Engineers, Nr 30) Moscow, Geodezizdat, 1958. 95p. Errata slip inserted. 1,200 copies printed.

Editorial Board: A. I. Mazmishvili (Resp. Ed.), V. I. Avgavich (Deputy Resp. Ed.), G. V. Bagratuni, N. Ya. Bobir, M. N. Volkov, A. I. Durnev, S. V. Yeliseyev, P. S. Zakatov, G. P. Levchuk, N. I. Modrinskiy, M. D. Solov'yev, B. V. Fefilov, and P. F. Shokin.

PURPOSE: This collection of articles is intended for geodesists, photogrammetrists and cartographers.

COVERAGE: This issue is devoted primarily to problems in geo-

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desy. Individual articles on photogrammetry and cartography are also included. The articles on geodesy treat: 1) the computation of coordinates from sides in primary triangulation, 2) continuous operation electric computers for adjustments, 3) solar eclipses as related to the figure of the Earth, 4) problems of the Earth's flattening, 5) surveys for construction work, and others. On the subject of photogrammetry there are articles on photo rectifier PTB and on the properties of silver bromide. In cartography, the matter of problematical islands in the Arctic is discussed. References accompany individual articles.

TABLE OF CONTENTS:

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Plakhov, Yu. Solar Eclipses and the Figure of the Earth.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

General Theory 23

Plakhov, Yu. Some Problems in the Theory of Determining the Polar Flattening of the Earth from Lunar Parallax 31

Peygel'man, A. Signal Lamps 35

Bronshteyn, G. Establishing Survey Nets for Construction Work by Professor A. I. Durnev's Method of Intersections 41

Nemtsov, V. Applying Elements of the Theory of Matrices to Some Problems of the Theory of Mathematical Processing of Observations 53

Kolobkova, L. Evalution of the FTB (photo rectifier) 73

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

DEMIDENKO, N.M.; PLAKHOVA, L.G.; TEPLYAKOVA, Z.M.

Working conditions and preventive measures during the application of new defoliants and desiccants to cotton. Med. zhur. Uzb. no. 9:15-18 S '60. (MIRA 13:10)

1. Iz kafedr gigiyeny truda (zav. - dotsent N.I. Smetanin) i obshchey khimii (zav. - dotsent E.Kh. Timbekov) Tashkentskogo gosudarstvennogo meditsinskogo instituta.
(AGRICULTURAL CHEMICALS—TOXICOLOGY)
(COTTON GROWING—HYGIENIC ASPECTS)

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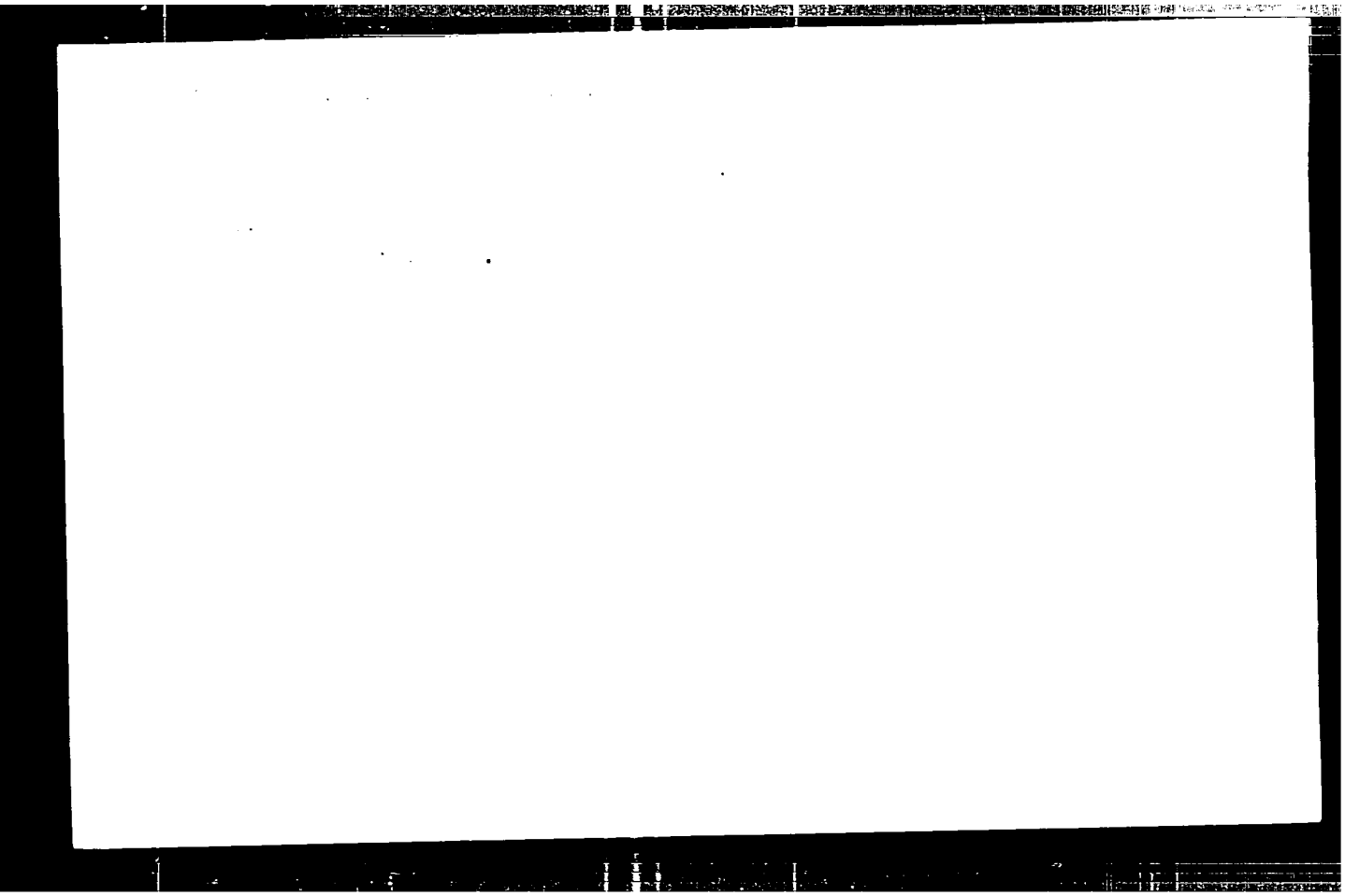

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

239. PLAKHOVA L. G. *Experimental investigations on the effect of dust from the cotton-cleaning plant (Russian text)* Gigiena 1957, 3 (36—40) Graphs 2 Illus. 2

The dust consists of: an organic part of 30-35 %, a mineral part of 65-70 % including an average of 40 % of total silicon, and 18.5 % of silicon dioxide. The dust was injected i.p. to white mice in order to examine the phagocytic reaction and intratracheally to cats for a period of 79 months (100-150 mg. a month) for later X-ray and microscopic study of the lungs. Similar experiments were carried out separately with the mineral part of the dust. Introduction of dust for a long period of time into the lower parts of the respiratory tract of experimental animals, gives rise to a process in the lungs fundamentally similar to diffuse interstitial pneumosclerosis: these lesions are more pronounced when only the mineral part is introduced. The phagocytosis is more pronounced when the dust from cotton cleaning plant was introduced as a whole; when the mineral part alone was introduced the phagocytosis was weaker.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOV, Yu.V. (Tula)

Perseids in 1950. Biul.VAGO no.16:27 '55. (MLRA 8:6)
(Meteors--August)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

MARTYNENKO, V.V.; PLAKHOV, Yu.V.; TEYVEL', V.O.

Lyrids in 1952. Biul.VAGO no.16: 28-33 '55. (MLRA 8:6)

1. Moskovskoye otdeleniye VAGO, meteornyy otdel; Gor'-kovskoye otdeleniye VAGO, sektsiya nablyudateley; Simferopol'skoye otdeleniye VAGO, Meteornaya stantsiya imeni G.O. Zateyshchikova pri Krymskoy stantsii yunikh tekhnikov. (Meteors--April)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOVA, L.G., assistent; PLATONOVA, L.I.

Toxic effect on experimental animals of an oleo-mineral emulsion of pentachlorophenol, a new desiccant of the cotton plant. Med. zhur. Uzb. no.5:70-73 My '60. (MIRA 15:3)

1. Iz kafedr gigiyeny truda (zav. - dotsent N.I. Smetanin) i patologicheskoy anatomii (zav. - prof. G.N. Terekhov) Tashkentskogo gosudarstvennogo meditsinskogo instituta.
(PHENOL—TOXICOLOGY)

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOVA, S.G., assistent

Experimental study on the effect of dust in cotton gins [with summary in English]. Gig. i san. 22 no.3:36-40 Mr '57. (MLRA 10:6)

1. Is kafedry gigiyeny truda Tashkentskogo meditsinskogo instituta imeni V.M.Molotova.

(PNEUMOCONIOSES, exper.
phagocytosis after intratracheal & intraperitoneal inject. of cotton dust.)
(PHAGOCYTOSIS
in exper. pneumoconioses induced by intratracheal & intraperitoneal inject. of cotton dust)

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOVA, L. G.

PLAKHOVA, L. G. "Material on the experimental investigation of the effect on the organism of dust from cotton-cleaning factories." Tashkent State Medical Inst imeni V. M. Molotov. Tashkent, 1956.
(Dissertation for the Degree of Candidate in Sciences)
Medical

So: Knizhnaya Letopis', No. 18, 1956

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

ZBERTS, V.L.; PLAKHOVA, M.B.

Application of burnet (Sanguisorba officinalis) in treatment of dysentery in children. Sovet.med. no.4:27-29 Apr 51. (CLML 20:8)

1. Docent Everts; Candidate Biological Sciences Plakhova. 2. Read November 1949 at the Siberian Scientific Conference for Epidemiological and Microbiological Institutes held in Tomsk.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

FEDOROV, Yu.V.; PLAKHOVA, N.B.

Producing serum against tick-borne encephalitis and specific gamma globulin by immunizing horses with purified antigen. Vop. virus. 7 no.2:244 Mr-Ap '62. (MIRA 15:6)

1. Tomskiy institut vaktsin i syvorotok.
(ENCEPHALITIS) (GAMMA GLOBULIN)

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T-10

USSR/Pharmacology. Pharmacognosy. Toxicology -
Antiseptics.

Abs Jour : Referat Zhur - Biologiya, No 16, 195 , 1964

Author : Plakhova, N.B.

Inst :

Title : The Comparative Effect of Tannin Containing Siberian Plants on the Dysentery Group of Bacteria.

Orig Pub : Farmakol i toksikologiya, 1954, 17, No 4, 39-42

Abstract : The effect of a 10% autoclaved decoction of Sanguisorba officinalis, Potentilla tormentilla, Polygonum bistorta, Bergenia crassifolia, Rumex confertus, Rumex fenicus, leaves and stems of Polygonum hidropiper and those of hipericum perforatum on the dysenterial (Strains Grigor'ev-Shiga 920, Flexner 942, Shmitz-Shtutser 128, Newcastle 4720, Zonne-Kruse 659) was studied. In the tannin containing plants 26-3.2% of tannids was found (the aforementioned plants in decreasing tannid order). Bacteriostatic

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

Abs Jour : Referat Zhur - Biologiya, No 16, 195 , 71964

effect on the Gr.gor'ev-Shiga and Shmitz-Shtuzer bacteria was shown by all plant decoctions, on Flexner and Newcastle S. officinalis, B. crassifolia, P. tormentilla, P. bistorta, on Zonne-Kruse no bacteriostatic effect was noted, but under the influence of these decoctions these bacteria agglutinated. S. officinalis and B. crassifolia had the greatest bacteriostatic effect and the largest range The decoctions showed no bacteriocidal effect. After incubation with equal volumes of decoctions no significant morphological changes were noted in the bacteria. Clinical testing of S. officinalis decoction on children with acute dysentery gave favorable results, when combined with sulfamide preparations. Excellent results were obtained by use of S. officinalis extract in early cases of acute dysentery. The treatment of chronic forms of dysentery in children was less effective.

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"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOVA, N.B.; MEKHANIKOVA, V.G.; DEYEVA, A.I.

Obtaining gamma globulin for tick-borne encephalitis under industrial conditions. Trudy Tom NIIVS 12 :254-257'60
(MIRA 16:11)

1. Tomskiy nauchno-issledovatel'skiy institut vaktsin i syvorotok.

APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R0013411

"APPROVED FOR RELEASE: Tuesday, August 01, 2000 CIA-RDP86-00513R001341

PLAKHOVA, N.B.

FD-860

USSR/Medicine - Dysentery

Card 1/1 Pub.30 - 11/18

Author : Plakhova, N. B.

Title : The comparative action of plants containing tanning agents, which grow in Siberia, on the bacteria of the dysentery group

Periodical : Farm. i toks. 17, 39-42, Jul/Aug 54

Abstract : On the basis of experiments described here, it was decided that decoctions of the plants: Sanguisorba officinalis, Potentilla tormentilla, Polygonum bistorta, and Bergenia crassifolia, when admixed with bacteria of the dysentery group, exhibited bactericidal and bacteriostatic characteristics, and should be introduced into general medical practice. The results of the experiments are presented in two charts. No references are cited.

Institution : Tomsk Scientific-Research Institute of Vaccines and Serums

Submitted : --

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